



18 June 2007

INFORMATION PAPER

SUBJECT: Wailupe Stream Flood Damage Reduction Project, Oahu, Hawaii

1. Purpose: To provide information on the subject project.
2. Points of Major Interest and Facts.

a. The project is in the Preconstruction Engineering and Design (PED) phase. A design agreement outlining all PED activities was executed between the U.S. Army Corps of Engineers (USACE) and the study co-sponsors, the State of Hawaii and City and County of Honolulu (City), on 30 December 2003. The total cost of the PED phase is currently at \$3,856,000 and the non-Federal sponsors will be obligated to provide 25 percent of the costs or \$964,000. PED activities have been initiated to prepare a Decision Document (DD). The Honolulu District received \$480,000 in FY07 to complete a draft Decision Document and Environmental Assessment.

b. The Honolulu District is not allowed to budget for PED activities beyond fiscal year 2004 until a project is economically justified in the Decision Document. Federal funds received to date are insufficient to allow completion of the PED phase. The major FY07 activity is the model testing of a scaled physical model of channel alternatives of lower Wailupe Stream and Kalaniana'ole Highway Bridge improvements to verify flow conditions. Additional FY07 work efforts include completing real estate appraisals and a draft Environmental Assessment.

c. The Wailupe Stream drainage basin is located approximately eight miles southeast of Honolulu and encompasses the Aina Haina residential community. The Wailupe Stream drainage basin experiences four basic problems including: 1) the inability of the existing flood control system to accommodate debris-laden flows; 2) the inability of the existing stream channel to accommodate clear water flood discharges greater than about a 20-year recurrence interval; 3) serious erosion problems; and 4) susceptibility of nearly the entire valley floor to flooding with 819 residential and 28 commercial structures within the 100-year flood plain.

d. The proposed project features include two new concrete debris basins; 1,000 feet of concrete invert lining; 7,600 feet of concrete channelization; an excavated channel extending 116 feet into the ocean; modifications to the Kalaniana'ole Highway Bridge; and other utility modifications.